

## ENVIRONMENTAL ASSESSMENT

### CHLORATET™ 50 CHLORTETRACYCLINE MEDICATED TYPE A PREMIX

1. Date: October 25, 1994
2. Company Name: Feed Specialties Company
3. Company Address: 1877 NE 58th Avenue  
Des Moines, IA 50313

#### 4. DESCRIPTION OF THE PROPOSED ACTION

The Feed Specialties Company, facility at Des Moines, Iowa, is located at 41 degrees, 40 minutes, 00 seconds latitude and 93 degrees, 35 minutes, 00 seconds longitude. The plant operations physically consist of a 12,000-ft<sup>2</sup> raw-materials area, 3,000-ft<sup>2</sup> manufacturing area, and a 22,000-ft<sup>2</sup> finished-product area.

The types of environments present at and adjacent to the location where the production will occur:

- A. Premix manufacturing areas are enclosed rooms.

#### 5. IDENTIFICATION OF THE CHEMICALS THAT ARE THE SUBJECT OF THE PROPOSAL

- A. Chlortetracycline:  
7-Chloro-4-dimethylamino-1,4,4a,5,5a,6,11,12c-octahydro-3,6,10,12,12a - pentahydroxy-6-methyl 1-1,1) - dioxo - 2-Naphthacenecarboxamide.  
CAS No:  
Molecular Weight: 478.88  
Structural Formula:  $C_{22}H_{23}CLN_2O_8$   
Physical Description: Golden yellow crystals, insoluble in water
- B. Calcium Carbonate:  
CAS No: 00471-34-1  
Molecular Weight: 100.09  
Structural Formula:  $CaCO_3$   
Physical Description: Odorless, tasteless, water-insoluble powder

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- C. Mineral Oil:  
CAS No.: 00012-95-1  
Physical Description: Clear, odorless, tasteless,  
water white liquid.
- D. Rice Hulls:  
Physical Description: Tan to light brown meal.

**6. INTRODUCTION OF SUBSTANCES INTO THE ENVIRONMENT FOR THE  
FEED SPECIALTIES COMPANY, INC., PRODUCTION OF TYPE "A"  
MEDICATED ARTICLES.**

**A. List of substances expected to be emitted.**

- (1) Chlortetracycline
- (2) Calcium Carbonate
- (3) Mineral Oil
- (4) Rice Hulls

**B. State controls exercised to modify emissions.**

Air emissions generated in receiving are controlled by four Rolfs 72W16 filters and one Rolfs 124RA6 filter, with a 99.9 + % efficiency. Air emissions generated by handling activities are controlled by one MAC M-Series filter, with a 99.9 + % efficiency.

Sanitary wastewaters and warehouse clean-up waters flow to an on-site 1,000 gallon, single-vessel septic tank and with a leach field. Storm-water drainage from under the parking lot and sheet run-off from the facility's property are discharged into the facility's 13,967-ft<sup>2</sup> retention pond.

Solid-waste material is deposited in a permitted sanitary landfill.

**C. The applicable emission requirements and permits obtained at the  
Federal, State, and Local Levels.**

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The Iowa Department of Natural Resources has delegated the air pollution control program in Polk County to the Polk County Physical Planning Department Air Pollution Control Division. Feed Specialties Company, Air Pollution Control Operating Permit number from Polk County is 00247.

All solid discharges are regulated by EPA 40 CFR 260-272 and Iowa's Solid Waste Rules. The disposal facility Feed Specialties Company, utilizes is Metro East Sanitary Land-fill with Permit No. 77-SDP-1-72P.

- D. **A statement certifying compliance with all applicable emission standards.**

During manufacturing, Feed Specialties Company, will comply with all emission requirements set by federal, state, and local Agencies.

- E. **Discuss the effect the approval of this NADA will have upon compliance with current emissions requirements at Feed Specialties Company.**

This NADA will not adversely affect our ability to comply with emission requirements. Currently we meet all emission standards on non-generic animal drugs formulated with same/similar active drugs and inactive ingredients.

**7. REFERENCES**

- A. "TOXIC SUBSTANCES CONTROL ACT CHEMICAL SUBSTANCE INVENTORY" TSCA INVENTORY: 1985 edition
- B. "THE MERCK INDEX" Tenth Edition, pub. MERCK & CO., INC., Rahway, NJ 1983

PREPARED BY

  
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